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	Developm compositi	ent of a lumin ion of great b	ous televisioniste.	on substance ith small ha	for 6 - 12 kV, lation and contr	a white olled after	-clos.
	a. Prepa mixed in th	aration of two d in a certain he color trian	o or three con ratio, gives ngle. Determi	mponents who white, i.e., ining of the	se spectral emis , determining of dependency of t	sion, when the color he cornen	•
	color	r spot upon th	e ratio of mi	ixture. Desc	dline is lay 19/	8.	
	b. Varia	ation of the r ribution neces	ectio of composery for a un	ments in ordination	der to obtain the contation. Deadle	e grain ine is Augu	st <b>1948.</b>
	c. Adjus	sting of the a truction of ap	fter-glow of propriete eft	the various ter-glow appo	components, des aratus. Deadlin	igning <b>and</b> e is Octobe	r 1948.
2.	Devolopment of a luminous television substance for 6 - 12 kV, white, no mixture.						
		Comment:	If a pure che	micel, this	is very interest	ting.)	50X1-HUN
	a. Syste	matic research tion of the pro-	h on all subs oblem. Deadl	stances capal ine is Septa	ole of luminescen	nca for the	
3.	Development of a luminous substance for Braun'sche tubes for photography of quick single traces of wave forms at a writin speed of 100,000 km/sec and 20 kV.						
	of th the r	e electro-tecl	hnical device intensity inc	, and an appa rease for a	required for the matus for the matus for the matus given electron 1948.	easuring of	<b>b</b>
	b. Measu under	ring of all us (a). Deadlin	seful luminou me is August	c substances 1948.	s with the appara	itus named	
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50X1-HUM

- c. Further development for improvement of the intensity and shortening of the light build-up time of the luminous substances found useful under (b). Deadline is December 1948.
- 4. Development of a luminous substance with an after-glow shorter than ZnO.
  - Design and construction of an after-glow apparatus for short afterglow periods. Deadline is August 1948.
  - b. Further development on ZnO. Deadline is October 1946.
  - c. Development of new luminous substances for the problem. Deadline not stated.
- 5. Development of a luminous substance whose emission bands lie in the ultraviolet spectrum, if possible at 360 - 380 m/u (sic , probably 3,600 - 3,800 Angstrom units), but no emission bands must appear in the visible spectrum.
  - a. Development and construction of a measuring device which facilitates the measuring of ultra-violet emission. Deadline is May 1948.
  - b. Measuring of the substances considered suitable for the solution of the problem. Deadline is July 1948.
  - c. Development of new luminous substances. Deadline is December 1948.
- 6. Development of a luminous substance for color television which shanges its color when voltage is increased.
  - a. Start of tests with possibly suitable substances. Deadline not stated.
- 7. Development of three luminous substances for color television. Deadline is May 1948.
- 8. Development of double screen luminous substances (primarily useful for Koving Target Indicator scopes on air search radars).
  - a. A stimulating substance; measuring of the emission of substances used for that purpose. Deadline is Merch 1948.
  - b. After-glow substance; measuring of the spectral distribution of excitation, and adjustment of the after-glow substance's light sensitivity to use the maximal emission of the excitation substance. Deadline is June 1948.

Measuring of the light build-up rate and preparation of luminous substances with shortest build-up time. Deadline is October 1948.

Preparation of luminous substances with fixed build-up time. Deadline is December 1948.

The following apparatus are required for the research:

Ultra-violet spectrograph

Equipment to carry out structure analyses by x-ray

Material for the construction of electro-technical and high-frequency technical apparatus.

Deadlines cannot be met unless these apparatus are available.

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